



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/672,069
Source: JFWO
Date Processed by STIC: 5/26/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

~~TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER~~
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/672,069

DATE: 05/26/2004
TIME: 14:09:02

Input Set : A:\SEQLIST.txt
Output Set : N:\CRF4\05262004\J672069.raw

4 <110> APPLICANT: RANA, Tariq M.
5 CHIU, Ya-Lin
8 <120> TITLE OF INVENTION: IN VIVO GENE SILENCING BY CHEMICALLY
9 MODIFIED AND STABLE siRNA
12 <130> FILE REFERENCE: UMY-062
14 <140> CURRENT APPLICATION NUMBER: 10/672069
15 <141> CURRENT FILING DATE: 2003-09-25
17 <150> PRIOR APPLICATION NUMBER: 60/413529
18 <151> PRIOR FILING DATE: 2002-09-25
20 <150> PRIOR APPLICATION NUMBER: 60/426982
21 <151> PRIOR FILING DATE: 2002-11-15
23 <150> PRIOR APPLICATION NUMBER: 60/458051
24 <151> PRIOR FILING DATE: 2003-03-25
26 <150> PRIOR APPLICATION NUMBER: 60/493095
27 <151> PRIOR FILING DATE: 2003-08-05
29 <160> NUMBER OF SEQ ID NOS: 34
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 21
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
40 and 21
42 <400> SEQUENCE: 1
43 gcagcagcagc uucuucaagt t
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 21
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
52 and 21
54 <400> SEQUENCE: 2
55 cuugaagaag ucgugcuget t
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 21
59 <212> TYPE: RNA
60 <213> ORGANISM: Artificial Sequence
62 <220> FEATURE:
63 <223> OTHER INFORMATION: siRNA target sequence
65 <400> SEQUENCE: 3
66 aagcagcagc acuucucaa g

pp 1-5
Does Not Comply
Corrected Diskette Needed

Please explain source of genetic material.

This does not explain the source of the Artificial Sequence material.

Explain source of Artificial sequence.

21 FYI: For a combined DNA/RNA sequence, please describe it in the <2207-2237> section

Describe combined DNA/RNA in <2207-2237>

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Input Set : A:\SEQLIST.txt

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68 <210> SEQ ID NO: 4
69 <211> LENGTH: 21
70 <212> TYPE: RNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: siRNA target sequence
76 <400> SEQUENCE: 4
77 aagugggagc gcgugaugaa c. 21
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 21 *give source*
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence *combined DNA/RNA sequence*
84 <220> FEATURE: *explain in 2207-2237*
85 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
86 and 21
88 <400> SEQUENCE: 5
89 gugggagcgc gugaugaact t 21
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 21 *give source*
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence *combined DNA/RNA sequence - explain*
96 <220> FEATURE:
97 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
98 and 21
100 <400> SEQUENCE: 6
101 guucaucacg cgcucccact t 21
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 21 *give source*
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence *combined DNA/RNA sequence*
108 <220> FEATURE:
109 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
110 and 21
112 <220> FEATURE:
113 <221> NAME/KEY: modified_base
114 <222> LOCATION: 1
115 <223> OTHER INFORMATION: 5'-aminopropyl-modified guanosine
117 <400> SEQUENCE: 7
118 gcagcaccgac uucuucaagt t 21
120 <210> SEQ ID NO: 8
121 <211> LENGTH: 21 *give source*
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence *combined DNA/RNA sequence*
125 <220> FEATURE:
126 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
127 and 21
129 <220> FEATURE:
130 <221> NAME/KEY: modified_base
131 <222> LOCATION: 1

RAW SEQUENCE LISTING

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Input Set : A:\SEQLIST.txt

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132 <223> OTHER INFORMATION: 5'-aminopropyl-modified cytidine
 134 <400> SEQUENCE: 8
 135 cuugaagaag ucgugcugct t 21
 137 <210> SEQ ID NO: 9
 138 <211> LENGTH: 21
 139 <212> TYPE: DNA *give source*
 140 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 142 <220> FEATURE:
 143 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at position 20
 145 <220> FEATURE:
 146 <221> NAME/KEY: modified_base
 147 <222> LOCATION: 21
 148 <223> OTHER INFORMATION: 3'-Puromycin modified deoxythymidine
 150 <400> SEQUENCE: 9
 151 gcagcacgac uucuucaagt t 21
 153 <210> SEQ ID NO: 10
 154 <211> LENGTH: 21
 155 <212> TYPE: DNA *give source*
 156 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 158 <220> FEATURE:
 159 <223> OTHER INFORMATION: RNA molecule with deoxythymidine at position 20
 161 <220> FEATURE:
 162 <221> NAME/KEY: modified_base
 163 <222> LOCATION: 21
 164 <223> OTHER INFORMATION: 3'-Puromycin-modified deoxythymidine
 166 <400> SEQUENCE: 10
 167 cuugaagaag ucgugcugct t 21
 169 <210> SEQ ID NO: 11
 170 <211> LENGTH: 21
 171 <212> TYPE: DNA *give source*
 172 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 174 <220> FEATURE:
 175 <223> OTHER INFORMATION: RNA molecule with deoxythymidine at position 20
 176 and 3'-Biotin-modified deoxythymidine at position
 177 21
 179 <220> FEATURE:
 180 <221> NAME/KEY: modified_base
 181 <222> LOCATION: 21
 182 <223> OTHER INFORMATION: 3'-Biotin-modified deoxythymidine
 184 <400> SEQUENCE: 11
 185 cuugaagaag ucgugcugct t 21
 187 <210> SEQ ID NO: 12
 188 <211> LENGTH: 23
 189 <212> TYPE: DNA *give source*
 190 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 192 <220> FEATURE:
 193 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 22
 194 and 23
 196 <400> SEQUENCE: 12

RAW SEQUENCE LISTING

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197 gcagcagcagc uguucuucaa gtt 23
 199 <210> SEQ ID NO: 13
 200 <211> LENGTH: 23
 201 <212> TYPE: DNA *give source*
 202 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 204 <220> FEATURE:
 205 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 22
 206 and 23
 208 <400> SEQUENCE: 13
 209 cuugaagaaa cgucgugcug ctt 23
 211 <210> SEQ ID NO: 14
 212 <211> LENGTH: 21
 213 <212> TYPE: DNA *give source*
 214 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 216 <220> FEATURE:
 217 <223> OTHER INFORMATION: RNA molecule with deoxynucleosides at positions
 218 1-21
 220 <400> SEQUENCE: 14
 221 cuugaagaag ucgugcugct t 21
 223 <210> SEQ ID NO: 15
 224 <211> LENGTH: 21
 225 <212> TYPE: DNA *give source*
 226 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 228 <220> FEATURE:
 229 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
 230 and 21
 232 <220> FEATURE:
 233 <221> NAME/KEY: modified_base
 234 <222> LOCATION: 2', 3', 11, 14, 17
 235 <223> OTHER INFORMATION: 2'-fluoro uridine
 237 <220> FEATURE:
 238 <221> NAME/KEY: modified base
 239 <222> LOCATION: 1, 12, 16, 19
 240 <223> OTHER INFORMATION: 2'-fluoro cytidine
 242 <400> SEQUENCE: 15
 243 cuugaagaag ucgugcugct t 21
 245 <210> SEQ ID NO: 16
 246 <211> LENGTH: 21
 247 <212> TYPE: DNA *give source*
 248 <213> ORGANISM: Artificial Sequence *combined DNA/RNA*
 250 <220> FEATURE:
 251 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
 252 and 21, deoxyadenosine at position 9 and
 253 deoxyguanosine at positions 10 and 13
 255 <220> FEATURE:
 256 <221> NAME/KEY: modified_base
 257 <222> LOCATION: 2, 3, 11, 14, 17
 258 <223> OTHER INFORMATION: 2'-fluoro uridine
 260 <220> FEATURE:

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PATENT APPLICATION: US/10/672,069

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TIME: 14:09:02

Input Set : A:\SEQLIST.txt

Output Set: N:\CRF4\05262004\J672069.raw

261 <221> NAME/KEY: modified_base
 262 <222> LOCATION: 4, 12, 16, 19
 263 <223> OTHER INFORMATION: 2'-fluoro cytidine
 265 <400> SEQUENCE: 16
 266 cūūgaagaag ūcūgūcūgct t 21
 268 <210> SEQ ID NO: 17
 269 <211> LENGTH: 21
 270 <212> TYPE: DNA
 271 <213> ORGANISM: Artificial Sequence *give source*
 273 <220> FEATURE: *combined DNA/RNA*
 274 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
 275 and 21, deoxyadenosine at position 9 and
 276 deoxyguanosine at positions 10, 13, 15 and 18
 278 <220> FEATURE:
 279 <221> NAME/KEY: modified_base
 280 <222> LOCATION: 2, 3, 11, 14, 17
 281 <223> OTHER INFORMATION: fluoro uridine
 283 <220> FEATURE:
 284 <221> NAME/KEY: modified_base
 285 <222> LOCATION: 1, 12, 16, 19
 286 <223> OTHER INFORMATION: 2'-fluoro cytidine
 288 <400> SEQUENCE: 17
 289 cūūgaagaag ūcūgūcūgct t 21
 291 <210> SEQ ID NO: 18
 292 <211> LENGTH: 21
 293 <212> TYPE: DNA
 294 <213> ORGANISM: Artificial Sequence *give source*
 296 <220> FEATURE: *combined DNA/RNA*
 297 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
 298 and 21, deoxyadenosine at position 5, 6, 8, 9 and
 299 deoxyguanosine at positions 4, 7, 10 and 13
 301 <220> FEATURE:
 302 <221> NAME/KEY: modified_base
 303 <222> LOCATION: 2, 3, 11, 14, 17
 304 <223> OTHER INFORMATION: 2'-fluoro uridine
 306 <220> FEATURE:
 307 <221> NAME/KEY: modified_base
 308 <222> LOCATION: 1, 12, 16, 19
 309 <223> OTHER INFORMATION: 2'-fluoro cytidine
 311 <400> SEQUENCE: 18
 312 cūūgaagaag ūcūgūcūgct t 21
 314 <210> SEQ ID NO: 19
 315 <211> LENGTH: 21
 316 <212> TYPE: DNA
 317 <213> ORGANISM: Artificial Sequence *give source*
 319 <220> FEATURE: *combined DNA/RNA*
 320 <223> OTHER INFORMATION: RNA molecule with deoxythymidines at positions 20
 321 and 21, deoxyadenosine at position 5, 6, 8, 9 and
 322 deoxyguanosine at positions 4, 7, 10, 13, 15 and

↓
 The types of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/672,069

DATE: 05/26/2004

TIME: 14:09:03

Input Set : A:\SEQLIST.txt

Output Set: N:\CRF4\05262004\J672069.raw